

LPC 031 631 5293 – Cook Co
Loewenthal Metals Corp. – Chicago
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ILP 000 510 081

EPA RECORDS CENTER REGION 5



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CERCLA

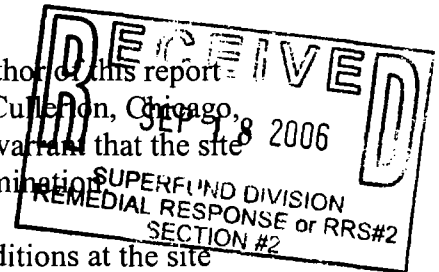
PRESCORE

SCORESHEET

CONFIDENTIAL

Recommendation for Loewenthal Metals

Based on the findings of this Pre-CERCLIS Screening, the author of this report recommends that the Loewenthal Metals Corp., located at 947 West Cullerton, Chicago, Illinois, not be added to CERCLIS. Quickscore calculations did not warrant that the site receive further investigations, due to the small area of possible contamination.



Although the site is not to be added to CERCLIS, current conditions at the site may pose a risk to humans. Residential neighborhoods are surrounding the undeveloped site. Children pass through the area on their way to school since there is not a sidewalk present. The northern portion of the lot is sparsely vegetated and the area could possibly be used for pick-up baseball games, soccer, etc. The southern portion of the site is vegetated and trees are present, but a concrete loading platform is present and the area has been used in the past for open dumping of household garbage, furniture and appliances. A temporary dwelling was also present at the time of this inspection, implying that the site is used as a living space.

Of the thirteen XRF readings for lead, nine of these readings were three times the background level. Three locations were above 400 ppm, and four of these locations were above 1000 parts per million (ppm) (Table 1).

Recommendations for the site would be the cleanup of the site with oversight by the Illinois EPA Voluntary Site Remediation Program. The option remains for the property owner to conduct cleanup activities on their own. If in the future it becomes apparent that the site is not being remediated or controlled, then it would be suggested that Illinois EPA elect an alternative remediation remedy.

This Pre-CERCLIS report will be shared with the Illinois Department of Public Health for assessment of the risks associated with the site. This information will be passed on to the property owner for their knowledge.

This Pre-CERCLIS report will be sent to the property owner with information about programs within the Illinois EPA that may benefit the owner with possible redevelopment of the site. Information pertaining to the Voluntary Site Remediation Program will be provided to the property owner for assistance with remediation of the property. This will allow the property owner to make contact with appropriate Illinois EPA personnel to make informative decisions associated with the remediation of the site.

**** CONFIDENTIAL ****
 ****PRE-DECISIONAL DOCUMENT ****
 **** SUMMARY SCORESHEET ****
 **** FOR COMPUTING PROJECTED HRS SCORE ****

**** Do Not Cite or Quote ****

Site Name: Loewenthal Metals

Region: 5

City, County, State: Chicago, Cook County
IL

Evaluator: Lance Range

EPA ID#:

Date: 8/28/2006

Lat/Long: 41 51' 18" N, 87 39' 0.6" W

T/R/S: T 39 N, R 14 E, Section 20

Congressional District:

This Scoresheet is for: Pre-CERCLIS Screening

Scenario Name:

Description:

	S pathway	S ² pathway
Ground Water Migration Pathway Score (S _{gw})		
Surface Water Migration Pathway Score (S _{sw})	0	0
Soil Exposure Pathway Score (S _s)	6.65	44.2225
Air Migration Score (S _a)		
$S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		44.2225
$(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		11.055625
$/(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		3.33

0 Pathways not assigned a score (explain): Air Migration Pathway was not scored due to the air was not samples and that inorganic contamination would mainly be restricted to the soil. The Ground Water Pathway was not scored due to the ground water in the area is not utilized.

TABLE 4-1 --SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Watershed Evaluated:		
Drinking Water Threat		
Likelihood of Release:		
1. Observed Release	550	0
2. Potential to Release by Overland Flow:		
2a. Containment	10	
2b. Runoff	10	
2c. Distance to Surface Water	5	6
2d. Potential to Release by Overland Flow [(lines 2a(2b + 2c))]	35	0
3. Potential to Release by Flood:		
3a. Containment (Flood)	10	0
3b. Flood Frequency	50	0
3c. Potential to Release by Flood (lines 3a x 3b)	500	0
4. Potential to Release (lines 2d + 3c, subject to a maximum of 500)	500	0
5. Likelihood of Release (higher of lines 1 and 4)	550	0
Waste Characteristics:		
6. Toxicity/Persistence	(a)	10000
7. Hazardous Waste Quantity	(a)	0
8. Waste Characteristics	100	0
Targets:		
9. Nearest Intake	50	0
10. Population:		
10a. Level I Concentrations	(b)	
10b. Level II Concentrations	(b)	
10c. Potential Contamination	(b)	
10d. Population (lines 10a + 10b + 10c)	(b)	
11. Resources	5	5
12. Targets (lines 9 + 10d + 11)	(b)	5
Drinking Water Threat Score:		
13. Drinking Water Threat Score [(lines 5x8x12)/82,500, subject to a max of 100]	100	0
Human Food Chain Threat		
Likelihood of Release:		
14. Likelihood of Release (same value as line 5)	550	0
Waste Characteristics:		
15. Toxicity/Persistence/Bioaccumulation	(a)	
16. Hazardous Waste Quantity	(a)	0
17. Waste Characteristics	1000	0
Targets:		
18. Food Chain Individual	50	
19. Population		
19a. Level I Concentration	(b)	
19b. Level II Concentration	(b)	

Targets:

26. Sensitive Environments

26a. Level I Concentrations

(b)

26b. Level II Concentrations

(b)

26c. Potential Contamination

(b)

26d. Sensitive Environments (lines 26a + 26b + 26c)

(b)

27. Targets (value from line 26d)

(b)

Environmental Threat Score:

28. Environmental Threat Score [(lines 22x25x27)/82,500 subject to a max of 60]

60

0

Surface Water Overland/Flood Migration Component Score for a Watershed29. Watershed Score^c (lines 13+21+28, subject to a max of 100)

100

0

Surface Water Overland/Flood Migration Component Score30. Component Score (S_{sw})^c (highest score from line 29 for all watersheds evaluated)

100

0

^a Maximum value applies to waste characteristics category^b Maximum value not applicable^c Do not round to nearest integer

TABLE 5-1 --SOIL EXPOSURE PATHWAY SCORESHEET

Factor categories and factors	Maximum Value		Value Assigned
Likelihood of Exposure:			
1. Likelihood of Exposure	550		550
Waste Characteristics:			
2. Toxicity	(a)	10000	
3. Hazardous Waste Quantity	(a)	1	
4. Waste Characteristics	100		10
Targets:			
5. Resident Individual	50	45	
6. Resident Population:			
6a. Level I Concentrations	(b)	1	
6b. Level II Concentrations	(b)	50	
6c. Population (lines 6a + 6b)	(b)	51	
7. Workers	15	0	
8. Resources	5	0	
9. Terrestrial Sensitive Environments	(c)		
10. Targets (lines 5 + 6c + 7 + 8 + 9)	(b)		96
Resident Population Threat Score			
11. Resident Population Threat Score (lines 1 x 4 x 10)	(b)		528000
Nearby Population Threat			
Likelihood of Exposure:			
12. Attractiveness/Accessibility	100	25	
13. Area of Contamination	100	5	
14. Likelihood of Exposure	500		5
Waste Characteristics:			
15. Toxicity	(a)	10000	
16. Hazardous Waste Quantity	(a)	1	
17. Waste Characteristics	100		10
Targets:			
18. Nearby Individual	1	1	
19. Population Within 1 Mile	(b)	408	
20. Targets (lines 18 + 19)	(b)		409
Nearby Population Threat Score			
21. Nearby Population Threat (lines 14 x 17 x 20)	(b)		20450
Soil Exposure Pathway Score:			
22. Pathway Score ^d (S _s), [(lines 11+21)/82,500, subject to max of 100]	100		6.65

^a Maximum value applies to waste characteristics category

^b Maximum value not applicable

^c No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is limited to a maximum of 60

^d Do not round to nearest integer